

HOME COMPUTING WEEKLY

AN ADOBE SPECIALIST PUBLICATION

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Star studded issue!



With: McCormick, sweetshirts, games, albums... See p8



No Kidding!
The ups and downs
of Eddie Kidd's
road trip
jump challenges

Install your
bolder,
brighter,
better HOME

Meet Betty
Our page
three girl

Joysticks and
Interfaces —
the facts

Warner's Wipers
Special offer

Collage chart
The one to
believe in

After the C5 it's the mobile micro!

Steve Jobs confirmed rumours that he is working on a portable home computer — but it won't be on general release until next year.

Mr. Jobs, 36, revealed that the machine will be based on both Spectrum and the Amstrad interface technology and that it will be a "no compromise machine".

Radical change

He also suggested that it would have a radically new form of data storage which Sinclair Research is currently developing for the QL machine. This data store will have as it's base a complete silicon wafer which will give far more memory and after being cut into sectors or chips.

"When you look closer the wafer will be able to carry about half a megabyte of data," said Baskin. Baskin's back-up expected to last over a year and was simple enough. Double-sided wafers could make deeper discs optional.

The new screen technology, also Sinclair developed, has only been seen in the portable TV which is about to go into full scale production. Mr. Jobs wouldn't admit that any breakthrough had been made but he claimed that the portable would have a much larger screen.

No compromise

"Portability is a compromise in the moment," he said. "The compromise on display and on hard disk storage for home. People will buy one machine because it's the best machine there is and it is possible to sell."



Acorn pledges to back home users

Acorn chairman Alexander Reid faced the press to explain the events leading up to Acorn's financial crisis and emphasize its continuing support for both the BBC and education.

"We are absolutely committed to remaining in the home computer market," Dr. Reid stated. "We have no intention whatsoever of withdrawing."

He continued: "We will continue by recovering as well the situation as best through the year, and thereafter. The BBC has effectively had a price cut with the BBC model deal which is now strained."

Dr. Reid was refuting the rumours that Acorn would pull out of home computing and the British computer manufacturer Olivetti bought up 47 per cent of Acorn's shares to enable the company to



Dr Alexander Reid

overcome its financial difficulties. And Dr Reid's comments may put an end to the rumour that one of the BBC's schemes for supplying micros to schools — the BBC's part-furnished by educational institutions — had failed. School markets are very high on our list of priorities."

Sprite Machine 64

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Double talk

The battle for rights in the speech synthesis market continues. With Websys Systems releasing the Compat Microphone Control System, which attempted to market a number of speech synthesis systems for home computers, software developer Microsolutions has won and the name and product were sold to Micros.

The manufacturer of the system is Websys Systems, who had an agreement to sell the product in Canada direct trading. As a result, there are

now two companies selling Compat products under their own names.

The new Microphone is a repackage of two previous products for the BBC microcomputer. It contains both the original one and the other. The idea is that if you want to add other peripherals to the unit, then the speech synthesis.

Priced at just £29.95 the product represents a saving of nearly £100 over the previous price of the separate units. Both units are fully guaranteed by Micros.

Another producer, Microsolutions, Northants, MK23 7AA

Technical tips

After being inundated with enquiries from players having problems with Tedbrosus Ted, Micros Consultants has issued a set of tips for serious players.

The game, featured in a recent HCW computer, is set in an office environment in which you control Ted as he tries to get through a day's work.

We may have had a number of enquiries about the game, and we will soon be publishing the tips in our *Micros* column.

For those who can't wait, here are the tips from Micros Consultants:

All tasks must be done in the right order, and you must work out the order for yourself. Tedbrosus Ted has a fairly even progression so that some change in the game progress. If a task looks easy at first, then it is probably not the one to attempt the task within.

Tedbrosus Ted graphics are ultra-smooth and efficient, so that starting position is even more important than in ordinary platform games. The PAL/FORCE can often be used to ensure that the correct starting position is used.

Similarly a jump can be made from a precise position by first jumping vertically, and then pressing left or right, the appropriately whilst Ted is still in the air.

This is all the easier, since many rooms have been designed so that the stated place can pass through without jumping provided he makes the right moves from the correct position.

Similarly when a task has been completed it can sometimes be easier to leave with deliberately no clue. Ted is used to the required task.

The order in which tasks may be completed is roughly the same as might be expected during an ordinary working day.

Rest assured, the game can be completed without the use of tips.

Micros Consultants, Horncastle, Tel: 0307 810600. Address: Trading Ave, Micros, Abingdon, Oxon OX14 9PL.



Andrew Horncastle, Ted's 'dad'

Wagons, etc.

There were seven differences in our New Gambit spot the difference portion.

Whitex Books 724

The grants to the State Library, Young Professionals of 1990 competition will be awarded this month and will total \$15,000 worth of computer equipment. It will be distributed between the winning teams and their schools.

The top three schools are at Northall, Pilkington and Rossing, and there are also 16 regional schools which will receive £250,000 of equipment.

The patients were asked to write a one-page summary of

Computer health

Rutherford, the electrical repair and maintenance rental company has begun operating a new service. Called Service Clinic customers will be able to have electrical appliances repaired very quickly and the service rendered to some makes of popular house equipment.

There are 40 Service Centers throughout the country, all of which are purpose built. Customers can either drop their equipment in or have it picked up at their home. Opening hours are 8.30 am to 6 pm.

Permittee, 44 Gregory St.,
Canton 06020-0204.

Chances to Run

Chemical Marketing's speech output device for the Sennheiser—the Senn Taylor—has been reduced in price to £24.95. According to Chemist, this is in line with the company's policy to give high quality products at the lowest possible prices.

Cheetah Marketing claims that the Sweet Talker is an elegant implementation of the telephone approach to speech synthesis which generates smooth, powerful, comprehensible and wide ranging speech output.

The package includes the plugin module, a configuration instruction manual and a demonstration program.

Chemical Marketing Ltd. 24
West St. London SW1E 8DA



Albums, sweatshirts and games on offer this week in our Give my Regards to Broad Street competition from

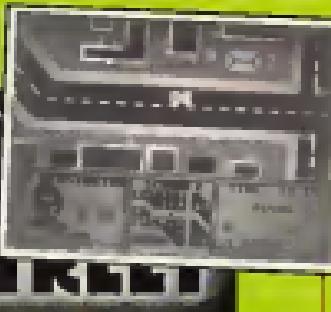
Apple Software

BROADEN YOUR HORIZONS

PAUL McCARTNEY

Give my regards

BROAD STREET



The week's competition will appeal to everyone — music fans, Thompsons and, of course, computer game players. There are prizes for everyone too — sweatshirts, records and game software.

The first prize winner will each receive a sweatshirt, a copy of Regards to Broad Street album by Paul McCartney, and a copy of the game, which is based on the tape. The 50 runners-up will each receive a copy of the game for the Spectrum or C64 computers, so even the non-winners prizes are well worth £1 each.

Both the tape and the game are based around problems which arise when a tape of Paul McCartney's new single goes missing. The master tape was lost and in order to replace it he has to collect all the members of his band and 10 fan clubs from around the London streets.

There are 500 steps in all to cover the full map of London, but as the members of the band always use the underground, you won't have to cover any of them on the streets. You are dependent upon your band members up Ford Prefect your knowledge of the band and their habits and, most of all, your wit.

The game comes in split and four separate parts. The major part shows the map of the streets along which you are travelling. Below, there is information about the character you are chasing, a brief list of the areas and information about the various underground stations. You won't be collecting coins from the stations before your friend arrives.

This is a complex game which, according to Alan Gammie, requires a good deal of thought and planning besides nimble fingers. If you want to win the game and the other goodies you'll have to brush up on your knowledge of Paul McCartney and his band.

There are 49 questions to be answered. In some cases, they require you to find a word or words of these are names of one band or another. We can't make it any easier, so here's a tip, you've nothing to lose.

Questions

- 1 Which famous cartoon character started alongside Paul McCartney in a recent pop video?
- 2 What is the name of Paul McCartney's wife?
- 3 Name the capital city where Broad Street is located?
- 4 Name all four Beatles
- 5 Where was Paul McCartney born?
- 6 Which female video star has won singer of the year? Give my Regards to Broad Street?

How to enter

Study the questions carefully and decide on the answers. More or less names of one band or another, and as most cases just one answer will be enough.

With your answers on the

lines on the space, provide full on the question clearly and there with your name and address. Please post clearly in black capitals. We use the computer to select your prize.

Send your entry to Broad Street Competition, Home Computing Weekly, No 1 Golding Square, London NW1 3AB. Closing date is at 12 noon on Friday 25th March, 1982.

You may enter as many times as you wish, but each entry must be on an official answer card and a copy of a postage stamp.

Prizes will arrive from Applesoft Software within 28 days of the publication of the issue publishing the results of the competition.

The rules

Prizes will not be awarded from members of Apple Software, Phoenix, Applesoft Software, C64, Apple Computer, Inc., Apple, Inc., or any other organisation that makes or sells any of the computers.

The rules of this competition are as follows:

The editor's decision is final and no correspondence will be answered.

Broad Street Competition

Entry Coupon

Name _____

Address _____

post code _____

Computer tested: Spectrum _____ C64 _____

Answers

1	_____
2	_____
3	_____
4	_____
5	_____

Competition closes on Friday 25th March 1982. For a copy of the Broad Street Competition answer sheet, send 25p to: 1 Golding Square, London NW1 3AB. Competition closes on Friday 25th March 1982. For a copy of the Broad Street Competition answer sheet, send 25p to: 1 Golding Square, London NW1 3AB.

PERSONAL COMPUTER

Alien

Personal Computer

BY STEPHEN HARRIS

GAMES COMPUTING

YOUR

COMMODORE

BY STEPHEN HARRIS

HOME Computing

WEEKLY

EXCLUSIVE

Commodore User

• However well you do, the game is not exciting, just boring stuff. "In space no one can hear you scream" the blurb says. My neighbours aren't so fortunate — I've been giving them a hard time. But who needs neighbours with entertainment like this?

Personal Computer World

• The screen displays a port into three areas: a map of each of this ship's three levels, a report monitor which displays the ship's crew's status (both a read on the Alien screen), and a command monitor. The command monitor presents you with the instructions available to you, these can be selected with a joystick. There is a particularly nice feature of the game as it eliminates typing errors.

The Alien you encounter can either be a timid beast or a blood-thirsty monster, and no doubt the intensity of your strategies will reflect this.

From beginning to end you're looking over your shoulder?

Games Computing

• The game follows the track of the film quite closely, with a large number of variations. If you know exactly what was going to happen the game will get very boring.

The game is basically of a strategy type with adventure-like thrown in as well?

Your Commodore

• The review will require a few attempts to become acquainted with the game but the authors have thoughtfully provided a short command option for the space-race.

The cassette is accompanied by a booklet giving clear instructions for playing a summary of the film. To speculate on the game's subtleties, it will help to have seen the movie which would also give the player some idea of what to expect. I had under my nose just that time round — the game is true to the film. Only the bravest players should confront the Alien at the small hours of the morning. I'll say no more — the hairs on my neck are bristling again?

Home Computing Weekly

• At first I was disappointed as Alien is neither really adventure nor puzzle, but after playing several times I can say that this game gives you. The sound effects add to the suspense as does the sudden arrival of the monster?



ABOVE PRESS SOFTWARE LTD.
100 Liberty House, 235 Regent Street, London W1R 7BB

Commodore 64

Now available for
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Superchess

In order to test this program fully, I set it up as opposition to Mikro-Gen's Masterchess III on the Spectrum.

Superchess allows you to set up the board to meet your requirements, and plays on several levels, each with a different response time varying from pretty quick, to slow. The pieces, though a very unattractive, with the board varied from above interestingly, when left in a pawn down, each program produced the same opening moves (except I, though I was on level 3 that I decided to play them higher and out). It started out being fun trying their respective moves into each computer.

Masterchess took about 10 minutes to produce it's moves, while Superchess produced a move about three minutes thinking time, and then it's the move it produced. After three hours, I was forced to dual Masterchess on the Spectrum and put an agent, and Superchess was still winning away. At first, there was no sign of a winner, so I consulted off the net and thought, well, Masterchess, as one wise bluffer does declared that Superchess had made an illegal move, and suggested to fight - either that, or it had an off-board not correctly.

All the usual features are here, recommended moves, full play, analysis mode and insights as to how the program works. A handy feature for green screen owners is the facility to change screen colours. Acceptable, but rather slow if you want a real challenge.

Price £9.95

Publisher CP Software

Address: 10 Alexandra Rd, Hoveygate HG5 5JS



Castle of Terror

If you like graphic adventure games, go to seek out this right for you.

The usual comes with these pages of instructions although the present objective is not given. 'What you do is up to you' says the blurb. As the title page shows a Dracula figure, passing a stake through his heart wouldn't be a bad idea.

The adventure loads quickly and the screen has a black-and-white picture at the top half with your agent and two copies of the bazaar. One feature is the 3D English style maps. The adventure allows you to move 'around' in a set of rooms occupied by the computer. However, I don't seem to have the knack of commanding in pedantic English. When I enter 'Kitchen' on day one the computer responds 'You do not have' of although back at the vocal. I therefore had to have many more conversations with the computer.

The usual adventure commands are provided, look, inventory, examine etc. In addition you can call up the number of moves you've taken and your score and you can quit and restart the game at any stage.

I think these adventures would get general bags of genuine out of Castle of Terror. The graphics are good, there are appropriate sound effects at certain stages and some of the characters are cartoonish.

Price £9.95

Publisher Melbourne House

Address: Castle Yard, Hatton Garden, London WC1R 8TP



Battle for Midway

Wargaming is a highly respected and long established traditional boardgame. Until, a real warfare battle is arranged, but of course, the outcome can be different. The problem is that you need someone to play with. PSS has the solution here which appears to stick to the tradition of the game, whilst adding the sophistication and faction of the house rules and a very diverse partner!

Once loaded, the map of the battle area is shown in medium colour. On it are shown the American defenders on the edges of two rock formations, plus the base, the Midway with it's airfield, and two search planes. A large carrier can be moved about the screen and when positioned over a port, a report on plane will be called up. Additionally, if there are planes, they can be launched or landed. On the learning level, some helpful detail facts show the route of the Japanese.

By moving your carrier and positioning jets, you can get planes to search. When the Japanese are eventually discovered, you can see them reduced. You must then launch your attack if they don't stop out your airfield long.

When an attack is launched, the screen displays the name, and assigned aircraft and stage the battle royal. You can plan an attack just right and perfect! Afterwards you count the cost, and if you happen to have left your planes on the air too long, then it's certain, for them, and probably for you. Super graphics and sound. Great fun.

Price £9.95

Publisher PSS

Address: 403 Stoney Street, Ed, Coventry CV5 1DD



Alien 8

It has to be admitted that such games alien 8 looks not a rather special. That is, of course, no exception and really has to be seen to be believed.

It isn't that the games are so unusual or that they are such good games and try out to be played again and again.

This game is based upon the popular Knight, Liver and Queen and has you moving a small, one robot in a 3D landscape which is the interior of the space ship. Your mission is to keep the human inhabitants alive during their enormous capsule and find and recover the thermocell valves and make sure that all the humans are alive and in the right position to be able to land the ship.

To keep you alive are a host of difficulties including trap doors, plasters, big shafts, moving floorboards and other hazards.

The game has a basic colour in particular, it would be nice to have the various of many identified in some colour, however, the graphics give one the main problem of having to identify the various before they get you.

The other's speed of movement varies with the number of moving objects on the screen plus the doesn't distract from the enjoyment. I was a little disappointed about the instructions, which leave rather too much to be discovered by the taking. Still a winner though.

AB

Price £9.95

Publisher Ultimate Play the Game

Address: The Green, Ashby de la Zouch, Leicestershire LE12 8JU



Software Star

This is the new game from Kevin Town, designer of Football Manager, and as such follows the same sort of idea. You are given a year to launch and run a successful company.

In your first year your target figure is £10,000 and if you are successful your board of directors will expect even greater things of you. Your job as manager, therefore, would be to be a one-man office. As well as starting new products you also have to sort out research, advertising and progress while dealing with the management of the sales and development. Along with your financial status, it's enough to give you a start.

The businesses in the game are refreshingly set out on the screen in the cassette. Unfortunately it's not a fast loader, so it's a case of reading it loading and having a cup of tea.

Once loaded the graphics consist of paper cutouts about the size of play with the occasional graphic. The highlight of these is a game over, where you can watch as your game is games, starts and hopefully triggers the 'the 1 page result' (the fallout of nuclear war) Sound is moderately non-existent. Overall the game is fun to play a few times, but not as addictive as the package would have you believe. **D.M.**

price £7.95

publisher Addictive

address 2a Richmond Hill, Bournemouth, Dorset BH2 4EE



price £8.95

publisher Amsoft

address 189 Kings Rd, Bremwood, Essex CM14 4EP



Stockmarket

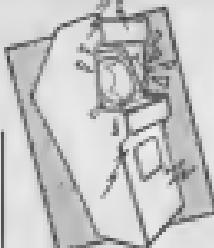
A financial game. After an age of bashing in the share market, the screen shows us there is a reorganisation of a financial concern, complete with an account modelled on and through which you receive your financial pay.

You start with £10,000, and by careful buying and selling in three types of money shares — gold, lead, tin and zinc — you can make as little money as three pence every on the market. If you run out of cash, you can acquire a limited loan which must be repaid in 10 turns, plus interest in the growing rate.

Other features are as they however, as a rather spurious resolution of a loan must stand at the foot of the screen. So it's feasible to buy into gold for example, and before you can lay a hand on your profits, the screen keeps on and gets us there.

Up to six players are offered for, and the aim of the game is to make a profit. Playing on your own isn't much fun, and while playing with a friend is better, it still isn't really addictive.

Perhaps this is a result of a limited number of random factors at play. Once you've had the excitement of the market, and watched the market very, very closely, there's not a lot to expect. It's quite mindless. We played for over an hour, and in this time I only managed £653,000 — which would be a fair sum. **D.M.**



Roland Goes Square Booking

This is an Amstrad game to which the title card with it's dubious spelling doesn't do justice.

Designers taking use of Logo 6.0 and many lots of disk, including a variety of screens, by making linked maps and platforms which move and turn round and upwards. Block moving, although a more complex than the next, has some solid blocks which are movable from a viewing angle above and slightly to the side of the construction.

This is what you see on the screen, but as growing multi-colour and 3D using keyboard or joystick, you must guide Roland, who has transformed into a rubber-like chap with arms and legs, up from the bottom to the top. Beware, however! Even while he's standing on the play, he begins to decompose, and if you wait a moment of a second too long, the bumbling Roland plunges skywards down behind the bottom of the feet of the screen of oblivion.

The first few screens are fairly easy, but after about seven, the going gets really tough. You have to be very quick and clever to pass out the last route. At least you can practice, because access to the level is built in, in a high score routine.

I liked the concept, the graphics and the sound, and found this refreshingly different challenging and addictive. The play card and instructions leave a desire, however. They don't describe the game adequately. Highly recommended, though pricey. **D.M.**

price £19.95

publisher Amsoft

address 189 Kings Rd, Bremwood, Essex CM14 4EP



Titan

This is a machine code utility/development program of the type generally referred to as a monitor. This allows you to generate code already written either by yourself, or, indeed, by a commercial programmer.

Slightly smaller than £100, Titan can be loaded almost anywhere in RAM allowing you to generate non-relocatable code to be run in the area for which it was written. Once the code has been loaded, you activate Titan by a 'Load' call. The display on command mode is of the 'Front panel' variety which shows the current state of all the 256 registers, their names, and when the address is necessary passed to the by register, constants. In addition, there are four 'switches' on memory which you can define allowing a constant 'push' instruction to be used in your program flags are also displayed.

Instructions for driving the program are contained in the accompanying manual, and a brief run down of the commands is also given on a reference card. A good idea, since there's nothing more frustrating than to have to dive into a complex manual in order to find a single command. Having said that, this is not really a package for a beginner. You must understand the principles and language associated with 256 code in order to use it, and be fluent in hexadecimal notation.

Given that, all the usual facilities for assembly, searching, modifying and single stepping are here, and output can be directed to a full size printer. **D.M.**

price £19.95

publisher Tomorrows Design Software

address Balmoral House, 14 Syston Road, Corham, Bedford MK4 2SH



The House of Horrors

The House of Horrors is an atmospheric go-haunt maze and puzzle game. The screen is laid out with the maze occupying the major portion, a compass point, window across the bottom, and an illustration/puzzle window top-right. At the start, a friendly dog-like monster looking house is repeated, and the player can see three puzzle doors positioned.

You are then shown on a map showing track 100 at the entrance to the maze. Using cursor keys or joystick you move towards the exit, but you're unlikely to get far! Scaryingly independent of your location, your path is barred by a number of obstacles. The Squidgy Gorilla demands you spit and remember his name, the Bad Mistletoe — with their off — request some winter ambiente, the Snake Pit, the finding of a hidden, mysterious looking garage and a version of Hangman, and given the chance of three dooms, you're bound to choose the wrong one! There are intermissions each time you fail, or back to the beginning again. This is awful!

A gaudy monochromatic noise accompanies the game, which, with the exception of power-ups, are very small graphics. Most of the graphics, though on the screen, they almost disappear using the colour modulator. The major portions, however, look fine.

On tape, the game is saved in normal and spectator modes, the first I've seen. Doubtless and therefore to report that the quick option wouldn't load Crystal, and adequate, about the standard of a £199 Spectrum game.

D.M.

Price £19.99

Publisher Solid Software

Address 29, Melville Rd, Bognor Regis, P.W.9.9P



Upper Gummie

Richard Shepherd achieved success with Urban Uppercut, and this game will also repetition no harm at all. The logic adventure offers a hundred puzzles, many illustrated in ridiculous mode.

The story here is original and well-crafted. Paul Trevor Blawhaw, a rather anxious bloke, has moved into the castle as Upper Gummie. What he has brought a large number of strange devices. After some time, bizarre things start to happen and finally the mad Professor delivers his ultimatum. Your task is to save the castle from his madcap machinations. To assist and complete your task, you can call on a variety of people including the helpful Emma and the lovable Miss Wally.

The standard of programming is very high with rapid graphics changes giving good quality pictures. Sound effects are used to give both fun and players to assist effect. The visual descriptions are nice and detailed, and better than most I've seen. Many of the accepted techniques are used including a real time element — even the colour of the pictures change at night approaches. The interesting characters have a degree of artificial intelligence.

The game is full of interesting problems and interesting ways to do in all the atmospheric developments well and as easily holds our interest. To make things less tedious, you can alter the speed of playing, and double the graphics, and pause at any point and allow multiple comments.

Overall this is an excellent game in a very good price, well worth your consideration. M.W., Price £19.99

Publisher Richard Shepherd

Address 15a, High St, 23-25 Clinton Ls, Bognor Regis



4 Minute Warning

I suppose it was inevitable and here it is — prepared by software. This is not a political judgement, merely an objective assessment. The CND logo features on the loading screen, and the instructions point out that we have the luxury of a last minute warning in the face of the nuclear holocaust.

In the case of a nuclear game, you then have four minutes remaining to save your life and that of the seven children of those things needed to survive in your fall-out shelter. Not surprisingly it's difficult, and very foul. You are then confronted by a screen message which makes the assumption you made for Mistletoe. Teacher, criticise you for it, then appeals to Roger and then to the lesson!

The graphic standard of the game is similarly crude; no provision for graphics, no menu options in bags, and only movement. I suspect the graphics in Nuclear made around BASIC. As a game, I found it boring, perhaps the standard of a magazine listing of a year ago in terms of sophistication.

As propaganda it fails too, being far too easy. The best propaganda is subtle, and had the authors wanted to actually achieve something in this respect, the message would have made an ideal vehicle. Happily, they were over the top, and we can see that the idea is to. What makes me sick, is it's obvious, who's going to buy a game? Is it just to confirm a political conviction? B.M.

Price £19.99

Publisher Argonaut

Address 47, Chieve Rd, Newmarket, Suffolk CB8 4EJ



Academics

Academics was the first CD-ROM game released for the BBC many months ago and it's still the best one around. It has now been converted for the Amiga and is an interesting game.

Academics was the logical progression from school studies. The computer could do a lot more than it was allowed to do in the days of the BBC. The game now increases the level of difficulty in field. I wouldn't bother buying for the safety of your child, but, you don't get any in Academics.

There are four separate types of alien, each having it's own learning value. It's a day while it's making a bombing run and it's a night while it's dodging. The value of the computer lies, which leaves above the main equation, can vary. There are normally attack, a computer with two main types. Should you take up the two, a set of rules before destroying the computer ship when it's worth a while 100 points. However, you will need to practice quite a while before being able to pull off this move with any regularity.

The system employed is dodging the same in one of the best I have seen in any game. At all times during combat the player's score and position in the game table is displayed, how points are awarded. The table in the bottom as you reach the points click up towards the number one slot.

If an accurate reproduction of a classic arcade game is what you are looking for then Academics is the bill.

Price £19.99

Publisher Argonaut

Address Acadsoft, 1a Market Hill, Cambridge CB2 3PU





Heroes of Kurn

An adventure game with some graphic illustrations. Kurn's taken you back to a modern/magical/mystery setting in a mythical land. The story starts make all clear.

You are the survivor who must return the heart of life, repossessed by the Queen of Kurn. Only you can rescue the four Heroes of Kurn, resurrect the land to peace and prosperity. In fact, the three main goals much further in setting the scene in 'much-needed' game instructions for playing the game are very detailed, but they don't get you far with your quest.

There are about 10 characters to encounter in the game. These are revealed the first time you encounter a location, but after that, you won't specifically ask for them. They really are quite magnificent. I always worry about quality when I try that a game has been converted from the C64 to the Spectrum, but this conversion is good, not simple line drawings, but real pictures drawn in a style on the screen.

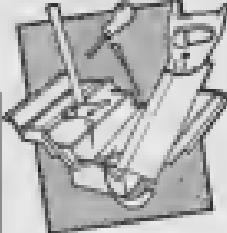
Thickability, this is one of those adventures which kills you off in the first three seconds, you get a chance to explore and collect a few bits and pieces before your machine starts. All in all, challenging, well executed and good value for money.

To discover whether it's the ultimate challenge, you'll have to try it for yourself! B.M.

price £5.99

publisher Interceptor

address London House, The Green, Tadley, Hants



Astrocade

This is one of an enormous range of programs suited for a variety of computers and it's designed to give practitioners of astrobiology the means to study the complicated relationships of relative positions of planets etc at the base of the solar system. Other programs in the series will show the relevant charts and data for analysis, but this module itself is the educational part, which the interpretation is left to you, and also includes some teaching programs to get the BASIC key words and their meanings stuck in your head.

I'm not qualified to judge the accuracy of the calculations, I mean functions, accept that. The standard of user-friendliness is another matter. Considering the claim that these programs are designed, the reason for introducing bonus programs are numerous, and if you manage to evade the most clever traps, which is quite easy, the machine crashes. Although the maths is done quickly, the results are expanded up on the screen, in a slightly different form to that exemplified in the detailed accompanying manual. You do have the option to use a power, though, it would suggest, only and would respond to the COPY command.

The level of interpretation based on the manual is very crude and the teaching programs don't really help. All this is in process terms of planets and satellites to be located, then set you on your location.

Very expensive, and very crude from a fledgling point of view. B.M.

price £11.99

publisher Astrocade

address 47, Finsbury Road, Hornsey, London N19 5EJ



Bigtop Barney

From the name, you may have guessed that this game has a circus theme. Having played it, I find enough that it was completely original. I have it on good authority, however, that it is a copy of an arcade original. This may well be so, but it is an excellent copy.

You control a clown called Barney and must complete four tasks or acts. These can be undertaken in any order and have four different degrees of difficulty.

This was involved walking along a tight rope and jumping over obstacles or through loops of fire. Failure to negotiate these losses a life. In fact two programs restore health from a range of platforms and ladders whilst avoiding a bouncing ball and the ever growing man. You get about the arena by jumping between levels, using stairs and falling down holes.

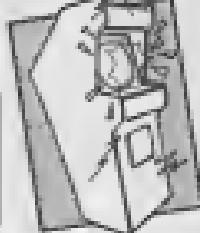
Next you need negotiate obstacles whilst riding a unicycle, this consists of balancing the same as the first screen. Finally, you must recover six keys by using unicycles, unipoles and avoiding fire breathers. All losses require accurate timing and patience.

The graphics are simple but highly effective with different scrolling and upgrading levels. The animation of the characters is both unusual and realistic. Few background pieces are used, all well arranged and with a sense of humour — loved the Money Python panel.

Overall, a fun game which is testing and addictive. At the price this game is good value and is well worth a look. B.W.

publisher Interceptor/Micron

address London House, The Green, Tadley, Hants



Saventini

This game is essentially for Tandy but offers fast-paced action, brilliant graphics and sound effects.

You are tasked with protecting the planet Astrolok from the attacks of the many forces of Computer. To this end, you control an array of space destroyers in a variety of different types of enemy ships and their like. Start throughout the game, you must defend your planet's resources and return to your home base for repairs and refuelling.

The player gives you the option through the four modes of game play. A superb feeling of forward motion is given by the stars and other objects as they zip towards you. The top of the screen gives a constant record of the ship's status. You can review the status of the enemies by displaying a Status Grid. This gives the current distribution of enemy ships at each quadrant. You also get the grid to move to a specified area.

Combat is depicted by the use of many ships coming towards you. You have a set of three bars to fire three weapons. The different types of enemy can difficult tactics and are game hard to shoot.

There are many other interesting features which will interest you to discover. The strength of this game is a fast, efficient use of sound and graphics, not just an odd noise, but diagnostic gunfire.

Overall, this is a brilliant game which is absorbing, tough and addictive. At the price, excellent value.

A.W.

price £16.99

publisher US Gold

address Unit 10, The Parkway Industrial Estate, Moseley St, Buntingford HP4 0TY





Paddington's Garden Game

The game should appeal to Paddington Bear fans and may even encourage Paddington to grow a few more.

You move Paddington through a series of gardens catching butterflies. The gardens are in the form of a simple maze made up of flower borders. The borders are positioned so Paddington must not touch them. Older children may not touch the hedgehogs that have invaded the gardens and the maze.

We had three bees to catch at many butterflies as possible. The butterflies have names and at the end of the game they are all released.

The maze has a fun level feature and the game can be played from keyboard or joystick. When the game has loaded you get some colour of instructions and many you go. Also included is a poster of a garden. I don't think the garden layout on the poster is related to the one in the game, although there is a faint resemblance.

I enjoyed playing this. The garden layouts are not too complex but the graphics are nice. Each garden has one or more bees that can you no other patients and if you're lucky you may come across some mammal mistakes which can boost points.

The English name together with the player's name is displayed on the screen so simple competition can be organised. This is a great water game that should appeal to the younger user.

L.C.

price: £4.95

publisher: Collins Soft

address: 4 Grafton Street, London W1X 3LA



Tower of Despair

It's an adventure game, with you cast as the Warren-Mage of Castle Argent, summoned by the Wizards to defend against the Scouring Shogun — come back sooner or later, all is foreshadowed. Ho ho, seriously.

The medieval fantasy is fully supported by reading the accompanying manual. The background to the story, the setting and much more are found here. A previously unknown Mage was previously defeated but now again be challenged by the remaining of the gold and silver guardians, only one of which you hold. You must find the holder of the other, then journey to the Tower of Despair and fight it out.

The game, written with the Quill, has both tales of the tower and scrolls very complex. Unlike most adventures, however, you are given a map of the whole area of play. Quilled adventures are, of course, best only — but not this one! A finely designed character on a landscape on the screen, but the illustrations are in the form of scratches, few drawings in the manual. These merit very close attention as visual clues are not to be found here. But only that, but you actually get plenty of the route in which you want.

Finally, although all the information is provided, there's still a very tight bound attitude to the commands and features of the program, so there's not plenty to find out. You do get a chance to get started before doing root, different and the climbing, though not perhaps an adventure for the timid.

BLA.

price: £7.95

publisher: Game Workshop

address: 21-29 Saffron Rd, London NW10 6JF



D-Day

D-Day is not necessarily a game in a simulation. It's complex, and features a map of the beach zones, schedules, disposition of both Allied and German troops and strategy. It is this map over which the turns window scrolls.

Play against the computer is impossible, you need a friend, and you can choose which of the battle scenarios to set the landing, involving just 10 Americans, American vehicles. Each of these has to be loaded separately. From tape, or otherwise not for Macintosh, but no provision is made for them. Though you can ask the computer to display your troops for you, it's already better to set it out yourself, it does take time however. We accept one of course, but you can then manoeuvre your forces around an overall map which can be pulled up at any time.

A vast amount of information is available about the different types of troops and weapons, together with their readiness for battle, the type of terrain and so on. Through the computer you may control trucks, tanks, supply ships, including tanks, light and the like. Although the visual part was decent about all this, it's hard to understand, and in places doesn't seem to make sense.

Graphically, although attractive, the screen is small, but this should not damp the hardened war games at which this package appears to be aimed. Certainly not for the weak-fleck. A special edit may appropriate it even at this slightly high price.

D.M.

price: £7.95

publisher: Game Workshop

address: 21-29 Saffron Rd, London NW10 6JF



Flipped



Hooked



Keen



Yawning



Coriolanus



Extend your vocabulary with six new RSX commands. David Ellis continues his enlightening series on Amstrad programming.

LEARN SOME NEW WORDS

See more new words this week to add to your growing list of RSX commands.

UROLL
This word is used to scroll the screen up by eight pixels per line. The top line will be 'lost' and the bottom line displayed. No parameters are needed for this one.

DROLL

The exact opposite: The screen will scroll down by eight pixels, with the bottom line being lost and the top line cleared.

Both of these words are the same BPLL routine — available on the jump block — the contents of the BPLR tell decide whether the scroll is up or down. The words can be used for many purposes. The following example will produce a screen 'pocket' — useful for exploring objects in a game:

**FOR X = 1 TO 30 :UROLL,
:PAUSE :UROLL :WAIT :NEXT**

The length and speed of the scroll can be changed by altering the values for WAIT and X.

The next few words ZERO and MOVE and will change the contents of RAM. They are both powerful commands, but also very descriptive if you are confused in selecting the values.

ZERO

This will zero the contents of a specified pointer of RAM locations. The syntax for using ZERO is:

ZERO, number of bytes, start address

For example, to clear the screen memory (which starts at &C000) you would use:

ZERO, 16000, &C000

Notice how quickly the routine performs. It is the equivalent of POKEing 16000 locations with zero. Compare the speed of doing this in BASIC by

**FOR SCREEN = &C000 TO
&FFFF :POKE SCREEN,0
NEXT**

This is a good example of the difference in speed between machine code and BASIC. ZMOVE could also be used to clear parts of the screen if required, but it's main purpose was to zero blocks of memory that are going to be used as buffers for various machine code programs or data.

MOVE

MOVE is a very powerful word. It will copy X number of bytes from one position to memory to another. The syntax for MOVE is:

**MOVE, number of bytes, dest
memory address, source
address**

Make sure you get the order correct! The source address is where the bytes are that you want to copy. The destination address is where they are to be copied to. Any errors here are almost certain to corrupt either your BASIC or machine code program or some other part of memory — with dire results!

MOVE can be used to relocate code segments — provided they are 'relocatable'. A machine code routine is relocatable provided that any jumps to within the program are relative jumps (BPL) and not absolute jumps (BPR). Always use a PPL instead of a JMP if possible as not only is it quicker for the program to find the jump, it is also easier to relocate. If the access memory layout of the AMSTRAD is more or less conventional, then MOVE would be very useful for moving blocks of data on the screen. However, due to the unusual screen layout, this is not really so.

Copying the whole screen to memory and reading a line could be very useful though. This could be done as follows:

MOVE, &1000, &6000, &C000

All 1600 bytes of screen memory are copied to locations

&1000 to &2000. Be careful that the area you copy to is not being used by a BASIC or machine code program, or by the operating system or else the results will probably be disastrous. Try the above by copying a series layout. Clear the screen and then enter the following to re-display the original screen:

**MOVE : PAUSE : JUMP :
&6000**

The original picture will be displayed as a fraction of a second. Be careful that the screen offset has not changed though, as between screen and reading the screen. Provided that no screen scrolling has taken place then the offset will be the same. This is much more likely to happen when saving screen changes on tape and loading them back in at a later date.

As you may have found, the process is disguised in the wrong position, unless you are very lucky. To help overcome this the following two words will be of great benefit, plus they can be used to produce some very fast scrolling:

To scroll the screen on the AMSTRAD an offset is used. The scroll word is then performed by hardware — it is very quick! This means an provided in the jumpblock to read and set the offset. They are:

1 SCR SET OFFSET (JMP)
— Set the screen offset.
2 SCR GET LOCATION (JMP)
— Read the offset.

These are both used for the following two words:

OFFSET

This will call the SCR GET LOCATION routine, which returns the value of the offset in the HL register pair. The value will then be placed into the variable OFFSET_PP by using the following syntax:

OFFSET, @OFFSET_PP



As with `LIB$NM` and `LIB$CMD` the variable `OFFSET%` will need to be declared first by using — `OFFSET% = 0`. Then make sure that an address for the variable of `ptrname`, which is then used by `OFFSET`. To complement `OFFSET` we need a word to set the offset.

ESTONIA

By following this word with the required offset value some very useful screen stretching can be induced. The syntax for SET-SCREEN is:

REMARKS, value of office

Try the following to see the effect of changing the other values:

FOR I = 1 TO 1000 STEP
100 = D1010SET36 : H
WAIT100 NEXT

The changing the values for the offset and WAIT and you will then reduce the potential. If you are moving a screen down or up or to the right, then you can now take a ratio of what the offset value is to the size of moving. This value can then be used to set the offset when the picture is rendered, which should reduce the "displacement" problem.

Tables 1 and 2 give the full details of the machine code resources for these two new words.

The LBBK interaction of the MOVE course deserves special mention. This is one of those powerful multi-purpose LBB applications.

The content of the memory location addressed by the HL pair are loaded into the memory location addressed by the DE pair. Both ED and HL are then incremented. The ED register pair are then decremented (by 1). If BC does not equal zero, then the subroutine is repeated. If BC is zero, then the end of each

Address	Op Code	Comment
UDOLL		
ADDI1 LD R1	1.1	load R1 register with 1.
BEQZ1 CALL ADC10 RD R0, RD R1, LD R0	1.2	branch from subroutine
ADDI1 RD R1	1.3	
ADDI1 LD R0	1.4	load R0 register with 1.
BEQZ1 CALL ADC10 RD R0, RD R1, LD R0	1.5	branch from subroutine
ADDI1 RD R0	1.6	
ZERO		
ADDI2 CT 2	2.1	set value 2 to parameter
ADDC2 RD R0, RD R1	2.2	add R0 and R1 register
ADDC2 RD R0, RD R1	2.3	add R0 and R1 register
ADDC2 RD R0, RD R1	2.4	add R0 and R1 register
ADDC2 RD R0, RD R1	2.5	add R0 and R1 register
ADDC2 RD R0, RD R1	2.6	add R0 and R1 register
ADDC2 RD R0, RD R1	2.7	add R0 and R1 register
ADDC2 RD R0, RD R1	2.8	add R0 and R1 register
ADDC2 RD R0, RD R1	2.9	add R0 and R1 register
ADDC2 RD R0, RD R1	2.10	add R0 and R1 register
ADDC2 RD R0, RD R1	2.11	add R0 and R1 register
ADDC2 RD R0, RD R1	2.12	add R0 and R1 register
ADDC2 RD R0, RD R1	2.13	add R0 and R1 register
ADDC2 RD R0, RD R1	2.14	add R0 and R1 register
ADDC2 RD R0, RD R1	2.15	add R0 and R1 register
ADDC2 RD R0, RD R1	2.16	add R0 and R1 register
ADDC2 RD R0, RD R1	2.17	add R0 and R1 register
ADDC2 RD R0, RD R1	2.18	add R0 and R1 register
ADDC2 RD R0, RD R1	2.19	add R0 and R1 register
ADDC2 RD R0, RD R1	2.20	add R0 and R1 register
MOVE		
ADDC2 CT 3	3.1	set value 3 to parameter
ADDC2 RD R0, RD R1	3.2	add R0 and R1 register
ADDC2 RD R0, RD R1	3.3	add R0 and R1 register
ADDC2 RD R0, RD R1	3.4	add R0 and R1 register
ADDC2 RD R0, RD R1	3.5	add R0 and R1 register
ADDC2 RD R0, RD R1	3.6	add R0 and R1 register
ADDC2 RD R0, RD R1	3.7	add R0 and R1 register
ADDC2 RD R0, RD R1	3.8	add R0 and R1 register
ADDC2 RD R0, RD R1	3.9	add R0 and R1 register
ADDC2 RD R0, RD R1	3.10	add R0 and R1 register
ADDC2 RD R0, RD R1	3.11	add R0 and R1 register
ADDC2 RD R0, RD R1	3.12	add R0 and R1 register
ADDC2 RD R0, RD R1	3.13	add R0 and R1 register
ADDC2 RD R0, RD R1	3.14	add R0 and R1 register
ADDC2 RD R0, RD R1	3.15	add R0 and R1 register
ADDC2 RD R0, RD R1	3.16	add R0 and R1 register
ADDC2 RD R0, RD R1	3.17	add R0 and R1 register
ADDC2 RD R0, RD R1	3.18	add R0 and R1 register
ADDC2 RD R0, RD R1	3.19	add R0 and R1 register
ADDC2 RD R0, RD R1	3.20	add R0 and R1 register

Listing 2. Machine code listing for OFFSET and SETOFFSET

Address Reference	Op Code	Description	OFFSET
ADD100	CDP 1	ADD100	00000000
ADD117	RET 000	RET 000	00000000
ADD118	CALL LOC00000000	CALL LOC00000000	00000000
ADD119	RET 000	RET 000	00000000
ADD120	CALL LOC00000000	CALL LOC00000000	00000000
ADD121	POP 000	POP 000	00000000
ADD122	CALL LOC00000000	CALL LOC00000000	00000000
ADD123	RET 000	RET 000	00000000
ADD124	CALL LOC00000000	CALL LOC00000000	00000000
ADD125	RET 000	RET 000	00000000
ADD126	RET 000	RET 000	00000000

code this instruction when writing
programing -- my boy wants
bytes it would take 16 8000
machine code to do the same
thing!

You should now have quite a few words in your RSK. The BASIC library (listing 4) will enable you to print out the words in the RSK word table. You can use the programs as is or try to add to the programs which create the new words.

Next week we start on some LOGO type words to help you go grey with the Amara problem. Hopefully these will help to save you both time and memory in producing those 'special' messages.

```

        SETOFFSET
$0004 CP 1      DS 1      to then use parameter
$0005 SET PC      DS      return of PC
$0017 CALL ALTB    DS 45      using 45 offset in HL
$001A CALL ALTB    DS 1 EC      exit to other
$0020 SET PC      DS      done

```

Listing 3. BASIC instructions to list new words in RSDX.

20000 ADDRESS - JEFF N - 1 WHILE IN 20
20010 N - PERMANENT ADDRESS - ADDRESS - 1
20020 IN AN OTHER FIVE THOUSAND ELSE FIVE CENTS 20



It's your chance to give us your views. You've read the mag, you've typed the programs, now tell us what you think.

OPINION POLL



HCW Survey

As you know, we thought the survey was a success. Now about a month later?

Software Projects, the magazine that brought you the first 12 issues of computer games and software, has readers who are interested in doing a survey. What do you think of the survey?

What do you think of the survey? We can't wait to see exactly what you think. This is the first time we've made the survey more relevant to you. We don't want you to feel as though you're giving a better answer than you keep in touch with us.

So, if you're a member of the survey, you'll receive a copy of the survey, the monthly computer news and keep pace with the survey to allow you to design your own survey. Computer Games will be used for the survey. It's a wacky computer adventure where you have to make and help to save the city. Check from the computer.

If you're not a member of the survey, you'll receive a book or cassette from HCW for your machine.

Something for everyone with nothing to lose, except of course your thoughts.

Name _____
 Address _____

1. Are you male? / Female?
2. How old are you? _____
3. Occupation Student Working
 Neither Please tick _____
4. Please tick the computers you own or use

<input type="checkbox"/> Sinclair	<input type="checkbox"/> Amstrad CPC616
<input type="checkbox"/> ZX81	<input type="checkbox"/> MSX
<input type="checkbox"/> C64	<input type="checkbox"/> Enterprise
<input type="checkbox"/> Commodore 64	<input type="checkbox"/> C128
<input type="checkbox"/> C164	<input type="checkbox"/> Commodore 64
<input type="checkbox"/> Plus/4	<input type="checkbox"/> Spectrum
<input type="checkbox"/> VIC-20	<input type="checkbox"/> TI-99/4A
<input type="checkbox"/> BBC	<input type="checkbox"/> Other _____
<input type="checkbox"/> Electron	(Please specify)
5. Are you likely to buy another computer in the next six months? Yes/No
 If yes, which _____
6. What peripherals will you probably buy within the next 12 months?

<input type="checkbox"/> RAM pack	<input type="checkbox"/> Monitor
<input type="checkbox"/> Lattice port	<input type="checkbox"/> Printer
<input type="checkbox"/> Joystick	<input type="checkbox"/> Keyboard
<input type="checkbox"/> Floppy drive	<input type="checkbox"/> Other's (please specify)

SOFTWARE PROJECTS

7. Which of these magazines do you buy? How do you like them? Tick the appropriate column

	Newspaper	Magazine	Book	Software	Hardware	Business	Entertainment	Science	Personal
Popular Computing Weekly									
Personal Computer News									
Computer and Video Games									
Others (please specify)									
Home Computing Weekly									

8. Software

a. How much do you spend on software over a month basis? _____

b. How often do you buy software? Every week Every month Rarely

c. What types of software do you buy? Advanced Untested Business
Arcade Household Educational

d. Do software reviews influence your buying? Yes No

e. Do you follow the Callup chart? Yes No

f. Do you type in HCW program listings? Yes No

9. Hardware and peripherals

a. Do reviews influence your buying? Yes No

b. Would you like to see more hardware reviews? Yes No

c. Do you buy most cedar from HCW advice? Yes

10. Book reviews

a. Do reviews influence your buying? Yes No

b. Would you like to see more book reviews? Yes No

c. Do you buy most cedar from HCW advice? Yes

b. Do you buy books about personal computers? Yes No

11. Home Computing Weekly

a. Where do you buy your copy of HCW? Regular store From staff Subscription
Computer store

b. Do you ever have trouble getting a copy? Yes No

c. How many people read your copy of HCW? _____

d. Do you like the new look HCW? Yes No

e. Which part of HCW do you like best? _____

f. Which topics would you most like to see in HCW? _____

g. Do you like to see more reviews? Yes No

h. Do you like to see more software reviews? Yes No

i. Do you like to see more hardware reviews? Yes No

j. Do you like to see more book reviews? Yes No

OPINION POLL



PIRATE'S GOLD



This program by Tim Long takes you in search of treasure on a desert island.

In this place you play the part of a guest. Travelling around 30 different countries you should try to find some unique.

Each subject is different and more difficult than the last. There is a time limit of one hour quickly.

100 101 102

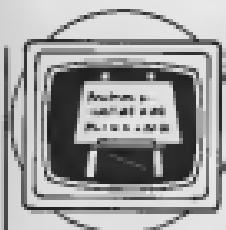
卷之三

1000 If this fails, please let you know so I can take the next
1000 step. Let me know if you need to be
1000 present. Otherwise, if you don't have time, the
1000 next step is to email.
1000 Let me know if you need to be present. Then, per
1000 my email, I'll either email or let you know when
1000 you can be free to do this.
1000 In general, when I'm doing an LST interview,
1000 I'm not present. But, if you need to be present, I'm
1000 happy to do that. I'm not sure if I need to be present
1000 for all of them, but I'm not sure. I think at
1000 least one of them, I'll need to be present.

www.english-test.net



BBC EDUCATIONAL AWARDS



John Henderson looks at the best and worst of educational software for the BBC, for use at home and in schools

At the BBC is the most common computer in educational use, this article looks back at the best of the last twelve months on the machine. It is confined to software available on the home and school market.

Best package

From a package that children can use again and again, without any of the possibilities! Book from 4Mation is such a product. It comes with an excellent handbook, plus a set of associated help cards and eight sample files.

The files show examples of a chess program, puzzle, maze and dungeoneer, actually created by children. Options within the program allow LOADing and saving of up to 12 pages of text. A manual or extensive page, Faculty helps the user to review in several, providing an excellent display of information. Pages can be created in a very short time and storage is simplicity itself.

Not only do you get all this, but disk users have two other programs thrown in — one a disc utility, the other an active search-algorithm for all the discs in school. Real value for money.

Most original

Whomver thought of the character Poldi for Ark deserves to succeed Beagles as often

feeling on this planet. It can understand basic English. You don't know which words, only that there are 120 actions the creature can perform — in natural usage for usage.

Poldi appeals to children aged 1 to 10. Watch as you interrogate Poldi — we have rats, pigs, even try to fly Ark too. Many questions and the answers are too demanding and too much self-explanation as Poldi explodes on the roof. Action can mean he undergoes a short stay, an up to five actions can be performed together. Incorrect answers are proved by a 'press the space bar' method. This really is a new venture and who else is so simple that anyone can use it?

Best software

Hang on to your hat as we visit the world of I... — no not the fifties, but a mathematical world where numbers talk on real meaning. It comes from the Association of Teachers of Mathematics.

The object is to success long enough on your mathematical wits to beat off the invasion threatening your progress. As with Mathematics it is crucial to carry the correct objects when you need them. Plane-making is essential as you try to find the key to unlock the mystery. A really innovative adventure that will keep children thinking — even if it is Maths!

Best sound program

In spite of the price, this has to be the latest Logic Music System. The on-board sound facilities on the BBC are very remarkable, with the power of Music System, a real map of £24.95 and children will become instant composers overnight.

Music System may seem expensive, but it's a real one. There are four modes of operation. A full editor allows children to create their own music and play it where necessary. Keyboard provides a piano-like keyboard for use, and synthesiser allows musical shapes to be created and used, and printed out.

One innovation is the option of a linked program, where up to 10 songs that can be linked together. A collection of sample sounds are also contained in the package.

A must for schools and the home. A real alternative to the recorder and organ.

Most changed software

All good software developments should include some free changes. When Factor was going to schools as part of a broader package, it was very much needed and children had. They may have needed a much too.

Add a new method, a full user guide and lots of Factor has got the answer.

Under the name of Factor, from Cambridge University



From the introductory diskette comes complete with three sample diskettes, a file copy program, printer file and Pacific itself. This complete diskette creates all the required Facilities to be displayed as far as files or subprograms and greatly increases the versatility of the whole package.

Children can extend their thinking skills and become active entrepreneurs — solving awkward questions comes naturally to them. A further extension of the versatility of Pacific is a seven day trial base — take the risk.

Most deployable program

Unfortunately this award could take up the whole page so there are so many educationally poor programs vying for your money I've restricted it to three companies.

Given publishers are on the grounds of having the most innovative tools in the business, I've limited them to four companies.

My choice is the Blue package.

The other two winners are really a parents' grade recommendation. Any package with the Regional MEF (Information Educational Program) standard as it should be signed with extensive options, as should software dealing in books and stories as simple lessons, Early Reading Skills, a hybrid from MEF/EDSI (a full quality into the colour screen, you have been warned).

Best software house

This was a close run contest, which is surprising. Most publishers of educational software are almost self-sufficient their own representation. MEF/EDSI is a case in point. All the material is tested thoroughly in schools before it reaches the shelves and the standard is extremely high. The owners, ASK, is a company which is equally concerned about the children who will use the products.

There is a larger library of programs from which to choose and a reasonably high degree of quality within all the products. Not only does ASK publish Pode, but other favorites including Pacemaker, as easy as pie, Superstar, program, and Number Counter

Best simulation

Archaeology, by Cambridge Software House, is an open-ended simulation straight from the stable which produced Expedition to Pompeii. This program can be used in any location — even your own front garden. Using an 80 x 80 grid, children draw up a site plan from which they, or other players, will later excavate. First, you enter the walls as up to three levels, then the floor areas, and finally the artifacts. Through an easy to follow menu, children can then explore the site over a period of time. One drawback is the cost of a sample disk, but

the documentation sets the scene well.

The publishers are endless, so could be used to measure the progress of a reluctant publisher over the years of events and tell us the battle with the wood

Best of the year

This has to be Pode for sheer brilliance. A non-violent, non-harmful, non-ear-piercing program for all the family, and educational to boot.

Best Palace

The software scene has changed rapidly over the last year. One of the most 12 months back for two things. First, software that is more open-ended and can be adapted to many situations. Secondly, software that has been tested in schools before marketing. Sample software houses will advertise the fact.

Happy computing — at home or school. J.H.

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An extremely flexible menu-driven program which allows 'books' of up to 10 pages of text and graphics to be stored on the BBC B micro (not for primary school use).

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DESERT RACE



The French

The sand's flying. In this camel race! Place your money and take your seats for Richard Webb's game.

Place your bet on one of six cards, then watch them race. Each card has its own odds, which determine your true odds.

YDU consumers are used to defining the control. How much reward is included, but you can add your own if you want.

How it works
1-99 99-100000, define
class names
100-105 calculate to each part
of program
106-107 prints initial result
number
200-210 with page number
200-201 defining for, initial
number, for
200-202 print above
240-241 print, check for winner
2000-10000 should of course, prints
winner and total, check for
no winner

Unit 7

T. *level* (2)
 B. *rate* *number*
 M. *which* *control* *to* *more*
 E. *LET* *US* *FOR* *TO* *which*
 control *to* *more*
 Q. *pitch* *of* *particular* *level*
 L. *LL*, *where* *to* *press* *key* *and*
 longer *half* *of* *press*
 P. *random* *numbers* *(1-10)*
 R. *0-100*
 Q. *normal* *pop* *for* *binding* *to*
 how *much* *you* *are* *binding*
 Q. *play* *again*

Deutsche

If you want to convert this program to the Commodore 64, you'll need to change all punctuation and characters.

IF YOU USE YOUR COMPUTER TO
PLAY GAMES, THEN YOU CAN'T
AFFORD TO MISS.

Computer

COMPUTER GAMER

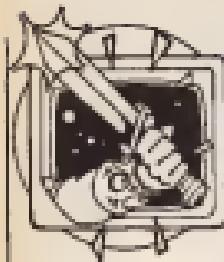
This fantastic new magazine appears on March 22 1983 and on the fourth Friday of every month after at the price of 95p.

Each issue will be produced in cooperation with Macaan, our interplanetary Adviser who on his home planet, Aargon, is a member of the Association of Supreme Players. He will be monitoring developments in the games industry and advising Computer Gamer readers with all their gaming problems. Included in each issue will be pages of review of the latest games releases, special Adventure features and a help-line, invaluable articles on how to 'crack' specific games, a high-scores page, exciting programs to type in for most of the popular home computers, news, competitions, reviews of peripherals and computers themselves if relevant to the games field and LOTS more.



Also, all readers of Computer Gamer will have the opportunity to join our tremendous Reader's Club — each member will receive a membership card and a regular newsletter which will contain up-to-the-minute news and all sorts of offers on a variety of products.

So all-in-all there's no way you can afford to be left out of the great new revolution in games computing — rush out and buy your copy NOW!



VENTURES

This week Peter Sweeney sounds off, and reviews Hellfire from Melbourne House, Scott Adams' Spiderman and Fantasy's Backpackers Guide to the Universe.

It's been a busy, exciting week at ATOM. Step with me into the world of adventure and see what's finally adventuring. This week I shall be looking at Hellfire, the Melbourne House game that won at the PCW show last September. Reviewing, from Scott Adams, and Fantasy's upcoming Backpackers' Guide To The Universe. But first...

Opinion
Adventure games are getting weak in my opinion. And if they don't move on fast, they might die away all together.

When do I mean? Well, they're blighted with lack of originality. The number of times I have reviewed games set in far-off lands, where winds are wise, demons disarray, dragons dominate, and the masters deadly, is a bit too many. Even so, though, they are still rolling off the keyboards. Kortilla, and *Scorpio's* of Chromerage Castle are just two examples. Some adventure authors will claim, admiringly with some justification, that each game has its own style, differences. But in *Ice Field*, or even the Puffin's *Chimera*, they all look the same. Which means unless the public not the developers will buy.

Of course, there are other factors, but these are not trivial. Game space, modern technology, improved graphics, spy games plus a host of other travel games are all well covered. One tends to be雷了. Why? There are so many possible fields for development — after all, adventure offers the only occasionally — with something like *Urban Utopia*, *Monsters* or *Sherlock Holmes* — do we really see anything good left in this topic?

If the computer keeps churning out the same games, only the very good, like the Level 9 games, or the very well developed, like *Kortilla*, will survive. Which is a shame. In this topic, The Quill is both a gift and a curse. It gives



adventurers the chance to win prizes, but they all turn out the same?

Adventurers aren't suffering so much since people seem to be more experimental. But even so, there is a limit to how many times these games the public can stomach.

So, fellow companion, think original!

Review

First up, Melbourne House presents us a adventure called *Hellfire*. Adams once said computer games run in cycles, and so they do, as here we have another Greek myth, but in the form of *God From The Gods*, by *Caesar*. As Ulysses, climb the slopes of Mount Olympus, avoiding falling boulders and the deadly Cyclops, rescue the Minotaur in the Temple of Knossos, and above the cyclops' lair and the buried treasure in The Maze. Oh well, at least it isn't as complicated as *God From The Gods*.

My first thought is that the apparent score when on the back cover probably isn't in the game. They appear to have been reached by with copious, giving a misleading impression. In fact the first screen is almost entirely black and white, makes death, and resembles an odd kind game as you bounce up the blocks.

At once, you notice the lack of colour — there isn't a heap in the game. Things are dark because by current PC game standards it is important, but over a treat to working on any PC adventure. The field screen is score. It can hardly be called a score: one across the screen, and at least 10. This only is considerably simple. Once completed, you return to screen one, which is now darker.

Caesar is recognisable, but the screen take a little while to be drawn. *Adventures* are quite good in general, this game is a disappointment. It's probably best to go to the *Level 9*, *Monsters*, *Urban Utopia*, *Monsters* has offering you that was a 100 game. The lack of colour and sound, with only three, although three different, screens, represents a

poor value and boring package. Melbourne House releases the game should take a week to complete — hardly a value package — and I completed it in two hours. *Monsters* being \$25... don't buy it! *Hellfire* costs \$15 and is available on the 486 Spectrum.

On to adventures. The *Hulk* was a big seller last year, despite being only average in many reviewers' opinions. Now comes the second in the *Quasar* series, written by the famous Scott Adams. The title *God From The Gods*, by *Caesar*. As Ulysses, climb the slopes of Mount Olympus, avoiding falling boulders and the deadly Cyclops, rescue the Minotaur in the Temple of Knossos, and above the cyclops' lair and the buried treasure in The Maze. Oh well, at least it isn't as complicated as *God From The Gods*.

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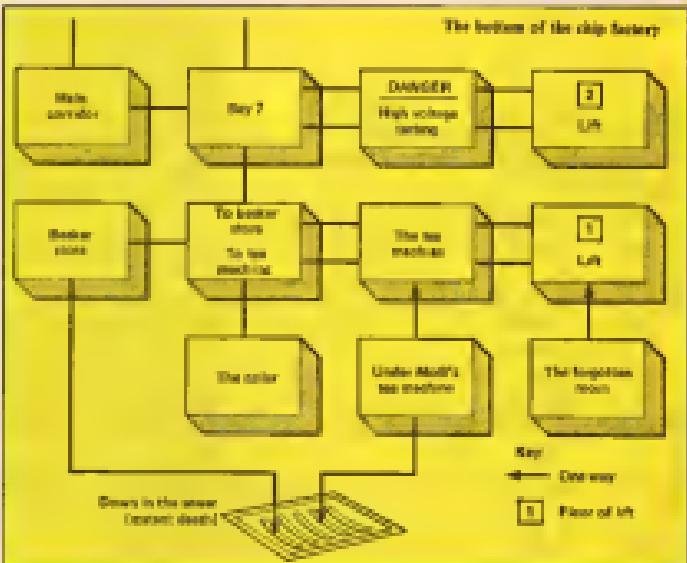
I have one query. I would seem to be using up the less known characters first. After the Fantasy Four, who are there, who are there next? Disturbing thoughts, particularly as that is a series of 12.

Finally, a slightly late look at The Backpackers' Guide To The Universe, from Fantasy. As super-hero fans, you discover that the authority evil Scourian has given you 24 hours' notice before he pulls the trigger plug, throughout the whole of the universe will blow down the planets.

To stay positive, you should help as needed, as you visit the Crimson City of Koda-Han, a variety of odds and to be bypassed, slightly obnoxious, aliens are held in cages. Do their own good, as everyone else's. You enter the Crimson to find them, carrying a backpack which will hold a reasonable number of objects.

The problem is, once the creatures are on the pack, you have to keep them alive. This is not just a tree of feeding food - it is no. The Double Headed King of Quartz, for example, is extremely asthmatic, and requires a book of Silverine love poems, so the use of it's breath can read the more angry ones to sleep. This and other vital information can be found on the Backpackers' Guide To The Universe, which is an odd one of the cameras. On side two is the game.

In practice, it is fun to play



The graphics are extremely attractive and smooth, and colour expands well. There are unlikely to be short, but they are as interesting as your Fantasy games and could be longer your program, rather than simple a challenge. Backpacking around, trying to find which objects are which creature, is a daunting task, but fun.

Again, this game has no sound. Backpackers' Guide is a

very complex adventure. It is perhaps a bit too complex, and costs £39.95. Also, it lacks the action elements of, say, *Pitfall*. However, it is a Venture rating of 3000 - interesting but a bit boring. I have high hopes for the second of this trilogy, *Imperialist*. It'll be reviewing number Fantasy game, *Drive In*, next week.

The Map
Here is part one of our map of

Hercy's excellent *Technique Ted*. The action, areas can from The Main Corridor, as seen on the title card. I would be interested to see any of your maps, and the next part of this will be soon, which will also include a list of links to download the file there.

Back next time with a bumper helping, more of the map, and reviews of *Drive In*, *Macbeth*, *Pitfall II* and more. Happy reading!



FAST AND FURIOUS

This brilliant game by Mark Fisher runs on the unexpected VIC-20. You won't believe a game could be this good on your machine!

Move around the platforms collecting bags by running upwards then Alter you have collected five bags a key will appear in the top right corner. Collect the key and run to the covered H in the bottom left corner.

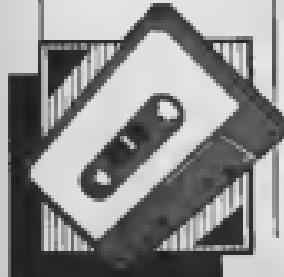
This takes you on to the next level. Each time you clear it screen, you move, up, left, one more level on the next one.

If this extends the stage, one each of the four platforms a maximum paralleling. It's much a final.

You have 40 seconds, and there needs to complete your task. You won 20 points for each leg and 50 points for the 3rd.

Use key A to go left, B to right, F for up and G for down. Load the game at two parts. The first part is the data for the new character set and the start screen for the game.

Once you "hire" loaded and run dry, the money goes to nothing. It gives you the pleasure to load your truck, which you should then earn.



11



LET'S TWIST AGAIN

This panto program by P J Cockerton means you can gamble without losing money

This is a PANTO program which has all the features of the original, including more high or low and top card tricks.

After the title page you are given 1000 and you start by an empty place you play. When you have placed your bet the reverse sides of two playing cards are shown, top left is your card and bottom left belongs to the computer.

You must keep taking an extra card by pressing T — twice — until the sum of your cards adds up to 21, or as close to that figure as you can get. If the total exceeds 21 then you lose. Once you press S — stock — then it is the computer's turn.

The game uses full 52 card playing cards which are handled and so you can shuffle your cards as you like.

Variations

- Q11 card selection
- Q12 1000 or a series of cards
- Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20 card positioning screen
- Q21 random card numbers
- Q22 addition of cards
- Q23 number of sets in hand
- Q24 number of games won
- Q25 game will be computer



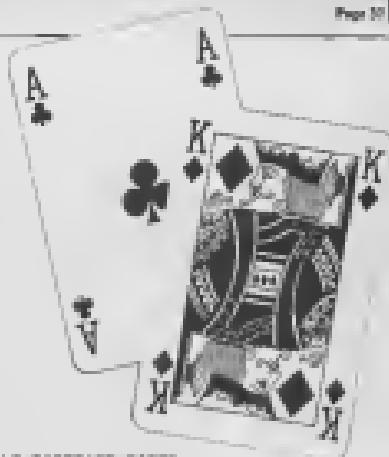
- Q26 sum total of cards
- Q27, Q28, Q29 top numbers and numbers appearing twice
- Q30 used to read data
- Q31 used symbols
- Q32 panto song of pantomime
- Q33 stock or no stock
- Q34 your name, computer's name
- Q35 used on this page only as sum of new cards
- Q36 colour memory map location
- Q37 volume control
- Q38 score form
- Q39 stock and dealer
- Q40 high frequency
- Q41 low frequency
- Q42 instant and release
- Q43 free card tool

- How it works
- Q44 set up screen variables
- Q45 set up screen to play
- Q46 print random card numbers
- Q47 print random symbols
- Q48, Q49 10000 card number and symbols used screen
- Q50, Q51 screen print out cards
- Q52, Q53 screen print out cards
- Q54, Q55 screen print out cards
- Q56, Q57 screen print out cards
- Q58, Q59 screen print out cards
- Q60, Q61 check random card print a paper card in paper
- Q62, Q63 symbols for picture card
- Q64, Q65 card file screen
- Q66, Q67 card file screen
- Q68, Q69 10000 panto display
- Q70, Q71 card page creation









Thumbs up

I would like to thank you for all the support you are giving the *One Africa*.

It may not be a very popular computer, but you are helping an African country gain more security in than. Keep up the good work.

Charlie Woods, *Manager*
Africa

**Look before
you leap**

While I congratulate Phil Able on his calendar program for the CPC/HCW '83, I have a message for all CPC users who have been 'advertising their health' by telling them that the Battle of Hastings was fought on a Sunday in 1066!

The 25th of October 1066 was a Monday! Phil has announced the leap year as leap numbers 10 and 100 by dividing by four, and normally every century year (1000, 2000 etc) would be a leap year by this method but in further compensation for the error in the solar year, only century years divisible by 400 are leap years (i.e. 1600, 2000 etc).

You're blessed!

Every time I turn to the letters page of HCW, I look to see if there are any complaints directly concerning the reviews of games or when people brought up the question as a whole etc.

It seems, although I am sure many readers write in to complain, HCW only publishes what used to be HCW publications, a lot of letters which make it look mixed, such as the letter quoted this time from the letter in HCW '81.

This letter went on to say 'you need the man'! I will be extremely surprised when a letter such as I have described is published.

R. Knowles, *Scotland*

Well, there it is, and we do publish critical as well as *Admirer* letters. Consider one criticism as valid as the really other.

The year 1066, for example, was not a leap year, hence the error in the date of the battle above.

The correction is simple, although it adds considerably to the present size of the present source.

Change

80 DA = 2 (Jan '79)

Add

```
10 IF (TY/100) = 1 THEN
  100 = 0 AND (TY/400)
  - (TY/400) X A = 0
  THEN MOD3 = 25
10) IF (A/100) = 1 THEN
  100 = 0 AND (A/400)
  - (A/400) B X = 0
  THEN 10
```

Don Andrew, *Portsmouth*

**Thumbs up to
Amstrad**

I am the owner of an Amstrad CPC610. Each week I buy *Home Computing Weekly* magazine and I must say it is a very good computer magazine. In HCW '81, on the latter page I saw an item mentioning that program using asterisks would appear shortly.

I have now seen none of these and I am very pleased with them.

Could I please buy a box of Amstrad CPC610 tapes or the market?

Postal Services, *Bathurst*

If you want to keep about software for the Amstrad then *Amsoft* at the Unit 100, 1000 Station Road, Bathurst NSW 2510, Australia, 02 242 1222, fax 02 242 1223, 02 242 1224, 02 242 1225, 02 242 1226, 02 242 1227, 02 242 1228, 02 242 1229, 02 242 1230, 02 242 1231, 02 242 1232, 02 242 1233, 02 242 1234, 02 242 1235, 02 242 1236, 02 242 1237, 02 242 1238, 02 242 1239, 02 242 1240, 02 242 1241, 02 242 1242, 02 242 1243, 02 242 1244, 02 242 1245, 02 242 1246, 02 242 1247, 02 242 1248, 02 242 1249, 02 242 1250, 02 242 1251, 02 242 1252, 02 242 1253, 02 242 1254, 02 242 1255, 02 242 1256, 02 242 1257, 02 242 1258, 02 242 1259, 02 242 1260, 02 242 1261, 02 242 1262, 02 242 1263, 02 242 1264, 02 242 1265, 02 242 1266, 02 242 1267, 02 242 1268, 02 242 1269, 02 242 1270, 02 242 1271, 02 242 1272, 02 242 1273, 02 242 1274, 02 242 1275, 02 242 1276, 02 242 1277, 02 242 1278, 02 242 1279, 02 242 1280, 02 242 1281, 02 242 1282, 02 242 1283, 02 242 1284, 02 242 1285, 02 242 1286, 02 242 1287, 02 242 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1365, 02 242 1366, 02 242 1367, 02 242 1368, 02 242 1369, 02 242 1370, 02 242 1371, 02 242 1372, 02 242 1373, 02 242 1374, 02 242 1375, 02 242 1376, 02 242 1377, 02 242 1378, 02 242 1379, 02 242 1380, 02 242 1381, 02 242 1382, 02 242 1383, 02 242 1384, 02 242 1385, 02 242 1386, 02 242 1387, 02 242 1388, 02 242 1389, 02 242 1390, 02 242 1391, 02 242 1392, 02 242 1393, 02 242 1394, 02 242 1395, 02 242 1396, 02 242 1397, 02 242 1398, 02 242 1399, 02 242 1400, 02 242 1401, 02 242 1402, 02 242 1403, 02 242 1404, 02 242 1405, 02 242 1406, 02 242 1407, 02 242 1408, 02 242 1409, 02 242 1410, 02 242 1411, 02 242 1412, 02 242 1413, 02 242 1414, 02 242 1415, 02 242 1416, 02 242 1417, 02 242 1418, 02 242 1419, 02 242 1420, 02 242 1421, 02 242 1422, 02 242 1423, 02 242 1424, 02 242 1425, 02 242 1426, 02 242 1427, 02 242 1428, 02 242 1429, 02 242 1430, 02 242 1431, 02 242 1432, 02 242 1433, 02 242 1434, 02 242 1435, 02 242 1436, 02 242 1437, 02 242 1438, 02 242 1439, 02 242 1440, 02 242 1441, 02 242 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Four points to switch

I feel I must write to these newswriters on a few subjects which I feel are relevant to you all.

Firstly, when reading your letters page I feel that about 90 per cent of the letters have the same format. It is the reader's role for more reviews, listings and so on reply with the personal reply just reply to state that you are only reflecting the state of the market. In the opinion one such letter with the appropriate reply would suffice each week.

Secondly, will it be the

subject of letters? However I see you asking for help with various problems including the following. I have never given the readers full answers to their other readers including the one below this and 'Who is that?'

Thirdly, I find your reviews on some of your software reviews a bit too indistinct. As you will see certain pieces of software can have equal or higher priority in each of the four categories than another piece of software and yet have a lower star rating. Is this reflecting a choice of the individual reviewer? If so then I can't see the point of

having four ratings of software. It would be useful to make comparisons.

Finally, I feel good I would make is that practically all issues of your magazine contain one or two advertisements. I feel that advertising should not interfere with either the software or hardware reviews. I would like to know who you don't say which makes it fair.

For example if these pieces were cleaned up a bit more, people would stop at more. Otherwise keep on the good work, as an otherwise good mag.

Phil Gattrell, Brixton

More for C64, please

I am a C64 owner and proud of it, but that's not with 112 releases.

Since the C64 has there's not software for it, so does could you put in programs and maybe some reviews too. There is no depends on the state of the market, as I know that. But surely there must be a link to pop in the odd game or two.

Mark Johnson, Oliver



Bold and fingerless

I've just finished reading the latest *VisiCalc* review. Between all the reviews are interesting, but not when they've been around a while. The ones you reviewed have been there before, again a while ago in fact. Does that good new software? That's not to me!

I did agree with your Scott Adams review. I had Advantechised for Christmas, keep me happy for ages, thanks. I'm now flattered because I've had to work very disappointing.

Level 9 produced the only software I've ever bought which really held interest, the other software and

Level of Time, admirably with a weaker peak at a high there, and are currently causing Colossal (this is the most useful) I refuse to share on this one — well, and much money. Please, just on that word?

Can't say I consider any releases as adventurous at all. That doesn't mean I dislike them, I just don't consider them as adventurous. Still, it takes all kinds.

Keep the eye flowing

Mr SamVinson, Horncastle

P.S. Before you say the only bold-leading, fingerless word in this, who is that?

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Programs are always supplied on cassette and are accompanied by full details of the program variables. Please type these details double-spaced. Listings are helpful, but not essential. What is vital is that the programs should be completely error free, so please double check.

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We also use short tips, articles and brief programming routines. Any discoveries you have made about your machine might be of interest to other readers.

All contributions are acknowledged and those accepted for publication are paid for at competitive rates. The copyright in each work will pass to Argus Specialist Publications Ltd. Keep a copy of your work and include a telephone number and an SAE. Please label everything clearly with your name and the machine concerned.

All contributions should be sent to:

Submissions

Home Computer Weekly
No. 1 Golden Square London W1R 3AB

Programs are always supplied on cassette and are accompanied by full details of the program variables, how the program works and any hints on conversion you can offer. Please type these details double spaced. Listings are helpful but not essential. What is vital is that the programs should be completely error free, so please double check.

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Liz Graham spoke to Eddie Kidd, star of Martech's *Jump Challenge*. Read about the thrills and spills of being a motorbike superstar

EDDIE KIDD — ACE STUNT RIDER

Eddie Kidd is still going strong after 18 years performing motorbike stunts, and if you've had a go at Martech's Eddie Kidd Jump Challenge, you'll have begun to understand some of the hazards and problems he has to face when going for a record jump.

Eddie was involved in the setting up of Martech's game, and he acted as adviser to some of the technical experts. He explained what can go wrong — and that in real life, too you are a computer novice.

"One big problem is head winds, which you have to cope with," he said. "You shouldn't be in the wind, and have your balance right."

He went on, "If you are too far forward the bike will dip and you'll crash. On the other hand, if you sit too far back, the bike tips up and you go over."

These stances are reflected in Martech's game, although the elements of risk, a mixture of the dangers Eddie has faced

in his jumps, Eddie's need for speed in life, and the game, and from that I extrapolate how fast I'm going," he added. "I take no shortcuts, run and cycle 20 miles every Sunday. For you a special diet which I'm supposed to follow, but I haven't been sticking to it recently."

The game in *Car古代* over the River Gates is a mighty one. "It's the world's first," Eddie said. "The run-up's particularly difficult."

Eddie Kidd has been a professional motorcycle stunt rider since he was 18. He has also been involved in several films, and is now branching out into the world of pop.

"I'm writing some songs with a friend, and we already made one record called *Knockout Man*, which has been released in Sweden. I'm looking to set up a deal with a record company over here — I used to be with *Delta Records*."



Eddie Kidd is the film in which Eddie did his first stunt, it wasn't a live action movie, but it does well on video. He also starred in *Blowout Street*, with Harrison Ford and Christopher Plummer, as well as playing a part in *Top Secret*.

Eddie seems a little composed, and he plays his part game on it, as well as *Gold Mine*. "I've had a poor Christmas, and I never asked Eddie for anything this year," he said. "I've improved. I've record 26, but that I do have come a lot of experience."

He explained how to make the speed of the bike. "Take the fuel and the gears, and from that I extrapolate how fast I'm going. I know, from my own experience, that at today's 100 yards, I'm going 10 and 100 feet on the game, you have to guess, because otherwise it would be far too easy."

You can imagine how soon as Eddie Kidd's *Jump Challenge* disappears from the shelves, and learning from the results Eddie has soon the versions for the other machines, and he then the Commodore 64 one too.

"It's got some nice little touches. You can move the game, and make it stand on the table. There are some very exciting places where you end up in *Car古代*, as well."

"The *Space Run* version is very difficult — it's the harder one," he went on. "Martech is holding a competition, and each machine a player wins a video. The winning scores on the Spectrum are much lower — if you manage 21, that's really going home, while on the C64, you're at 11 have won."

As a skilled motorcycle rider, Eddie Kidd is returning to his roots to go back to the beginning and start again as a little boy. He thinks there's a lot earlier, and prettier to keep on trying with motorbikes, rather than go back to road racing.

And future plans on the software front include a planned follow-up with Martech. Eddie is having talks with the company, but it's all under wraps at this stage. If you'd like to see Eddie Kidd on the high, go along to the opening of the motorcycle fair at the River Gates, in *Car古代* on March 11. He should it will make you realize how much safer and down to earth the computer game is, compared to the real thing!

PERIPHERAL

Fingers on the fire button — here's a review of Gun Shot and Vulcan joystick interfaces

Gun Shot
Amstrad cassette £8.95

Vulcan Electronics, 200 Brom St, Hendon, London NW4

If your computer has an Amstrad joystick connector, then this stick will work with your machine.

It is an extremely well built and rugged stick, with the new leather-grip-style handle. This is fairly comfortable to hold, even over quite long playing sessions, but there are really any alternatives held possible. With the full-type stick there are a variety of possible holds so that you never get cramp.

The stick is very precise indeed. In all four main directions and the diagonal directions response will not fail. It's smooth but reaches this in a stick which is likely to survive even the harshest of games for a long time.

The stick I used wasn't the original version, but there is one available. The fire button is both well located and positive in operation.

The four carbon pads on the base give good adhesion, but these are in the way if you prefer to play with the stick held held this is of particular importance if you use the base for button games.

The price of the stick is right and I will be using it for a number of titles, looking forward to the days and months to come. J.B.

Vulcan joystick interfaces
BBC B and Electron
C26/C19-95

Vulcan Electronics, 200 Brom St, Hendon, London NW4

Joystick interfaces might seem unnecessary pieces of kit to those who have machines with the joystick facility built in, but they can make a vast difference to those who are computer novices. Without the facility

There are both simple plug-in connectors from BBC, both with facilities which the Amstrad game



JOYSTICKS AND INTERFACES

play a vital role to you.

The Electro interface is built to the same connector standard and can't be inserted the wrong way round due to the use of a keyway. There are two problems inherent in this type of problem. Firstly, once connected there are no further expansion possibilities available and secondly there is no support for the case from the machine itself.

However, there are no problems with the interface's operation once connected and the sugar supplied are likely to give you full control over most games.

and joystick interfaces

The BBC already has an interface as standard, but the version shown here is for the extension range of Amstrad joysticks including those with rapid fire buttons. The tape supplied with this interface has versions for three games which require ADF401 conversion code. There is a switch on the top to allow you to select the horizontal direction as a number of BBC games are now created.

Both products are well-built and should give a good lifetimes. In particular, don't worry about the metal connectors on the BBC version. J.B.



SOFTWARE

Week Ending February 26, 1985



No real changes in the top class but a real surprise in number four this week.

Yes, Football Manager is still there and to prove the point it keeps bobbing up and down the charts like a pogo.

Now comes, below number twenty and very low this week, yet two 'Wally' games' new adventure. Everyone's a Wally, but come on in number 19 to make it four from MicroGen. Pyramids still holding on to 13. It all goes to prove that you can't keep a good Wally down.

The oldest new entry is from Amiga, Step Star, based on the game of Ice Hockey that is yet another game to play on the cold evenings when you can't be bothered to get out of the armchair.

The only other new chart entry is to the C64 chart, Land of Midnight from Beyond. It looks quite sorted at the moment, but judging from the amount of software arriving on our desks this could all change soon.

Rank	Software	Platform	Amiga	Apple II	Atari ST	BBC	C64	Commodore 64	Commodore 16/Plus	Commodore 68000	Commodore 128	Commodore 64/128	IBM PC	Macintosh	MSX	MSX2	MSX2+	MSX2++	MSX2++	
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SPECTRUM

Top Ten	
1	Alien 3
2	Alien 3
3	Alien 3
4	Alien 3
5	Alien 3
6	Alien 3
7	Alien 3
8	Alien 3
9	Alien 3
10	Alien 3

BBC

Top Ten	
1	Alien 3
2	Alien 3
3	Alien 3
4	Alien 3
5	Alien 3
6	Alien 3
7	Alien 3
8	Alien 3
9	Alien 3
10	Alien 3

COMMODORE

Top Ten	

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THE LAWS OF COMPUTING

This week we bring you a special article by reader Iain Murray. He takes a light-hearted look at computers — and where they go wrong

Ever wondered why things go wrong with your computer? Follow these simple rules and life will be much easier

General rules

- 1 Murphy's law — anything that can go wrong will go wrong
- 2 Koch's law — when something does go wrong, there's all you can do about it
- 3 Murphy's law of thermodynamics — things get worse under pressure
- 4 In every case, Murphy's law supersedes all others

General laws of hardware

- 1 Inexplicable parts work
- 2 On soldering the last wire on to a connector, it will be discovered that the connector doesn't fit when it's been fitted onto the board
- 3 When the last of 100 resistors has been removed from a circuit, it will be discovered that the wrong resistor has been removed
- 4 When the last of 100 resistors has been fitted back into a circuit, it will be discovered that the potentiometer has been left out
- 5 It would be better if you plug it in

General laws of programming

- 1 All conditions are variable
- 2 A decimal will always be misplaced
- 3 Should a program ever a fool could use, and only a fool will want to use it
- 4 If you put perhaps even a

computer, nothing comes out but garbage. However, having passed through a very malignant machine, the garbage is somehow simplified and no-one dare investigate it

- 5 Once a job has gone wrong, anything done to improve it only makes things worse
- 6 It can be human, but you need a computer to really foul things up

Farber's laws of data processing

- 1 In any collection of data, the figures most obviously correct and hence exempt from checking, is the mistake
- 2 Nobody you ask for help will tell you
- 3 The first person to step by, who happens to notice about your work, will spot it immediately

Stevenson's theorems

- 1 Any given program, when run, goes wrong
- 2 If a program is useful, it will have to be changed
- 3 If a program is useless, it will have to be documented
- 4 Any given program will expand to fill all available memory
- 5 Program complexity grows exponentially until it exceeds the capacity of the programmer who must complete it

Miller's laws of documentation

- 1 If documentation should exist, it doesn't

Relations to last week's puzzle

The answer is no. Computer monitors are a bit odd to use. In this last puzzle, the monitor is the opposite end of such that add up to the total answer. Then, we take the sum, 2 is opposite 3, 3 opposite 9 and 9 opposite 1, which gives 2+3+9=14

1 All documentation does exist, it is out of date

2 Only documentation for useless programs supersedes the first two laws

3 The probability of documentation existing for a given program is inversely proportional to the usefulness and complexity of the program

Hopper's laws of computer languages

- 1 BASIC isn't
- 2 FORTRAN didn't run enough
- 3 Making it possible for programmers to write in English, and you will discover that programmers cannot write in English

Cunningham's laws of error trapping

- 1 You can make it foolproof, but you can't make it dumb-proof
- 2 Never use for an error condition you don't know how to handle
- 3 At the source of every error which is blamed on the computer you will find at least two human errors, one of which is the error of blaming it on the computer
- 4 Don't worry if it doesn't work right the first time. If it did, you'd be out of a job

Thank of your family tonight. Go and talk to them. The next time the computer crashes. And remember

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